

1. (Currently amended) A system [[System]] for driving columns of a liquid crystal display comprising:

[[a]] logic circuitry [[(10)]] operating in a supply path between a first [[(VDD)]] and a second [[(VSS)]] supply voltage with said first supply voltage [[(VDD)]] higher than said second supply voltage [[(VSS)]], said logic circuitry [[(10)]] being capable of generating [[starting from the]] first logic signals [[(LOW_FRAME, WHITE_PIX) in input]] and second logic signals [[(CP, CN, CP_N, CN_N) in output]] whose value is equal to said first [[(VDD)]] or second [[(VSS)]] supply voltage,];

elevator devices [[(11, 12)]] coupled to said logic circuitry [[(10)]] and operating in a supply path between a third supply voltage [[(VLCD)]] greater than said first supply voltage [[(VDD)]] and said second supply voltage [[(VSS)]], said elevator devices [[(11, 12)]] being capable of raising the value of said second logic signals [[(CP, CN, CP_N, CN_N),]];

a first [[(T11-T12)]] and a second [[(T13-T14)]] pair of transistors having different supply paths [[(VLCD-VA, VB-VSS)]] and having an output terminal [[(OUT)]] in common, said first [[(T11-T12)]] and second [[(T13-T14)]] pair of transistors being associated with [[to]] said elevator devices [[(11, 12)]] and [[a]] said logic circuitry [[(10) so as]] to determine the drive signal of a column, wherein [[characterised in that]] said elevator devices [[(11, 12)]] are [[two and each of them is]] coupled to [[connected with]] one of said pairs of transistors [[(T11-T12, T13-T14),]]; and

[[in that it comprises]] turnoff circuitry [[(15)]] coupled to said [[two]] elevator devices [[(11, 12)]], said turnoff circuitry [[(10)]] being capable of keeping one of said two pairs of transistors [[(T11-T12, T13-T14)]] in the turnoff state in the period of time of a frame when the other of said two pairs of transistors [[(T11-T12, T13-T14)]] is [[in]] operative [[conditions]].

2. (Currently amended) The system [[Device]] according to claim 1, wherein [[characterised in that]] said turnoff circuitry [[(15)]] operates in a supply path between said third [[(VLCD)]] and said second supply voltage [[(VSS)]].

3. (Currently amended) The system [[Device]] according to claim 1, wherein [[characterised in that]] each of said [[two]] elevator devices [[(11, 12)]] separately drives [[separately]] the transistors of one of said pairs [[(T11-T12,

T13-T14)])] of transistors.

4. (Currently amended) The system [[Device]] according to claim 3, wherein [[characterised in that]] said turnoff circuitry [[(15) has]] one [[(LOW_FRAME)]] of said first logic signals [[(LOW_FRAME, WHITE_PIX) in input whose value]] changes value in response [[according]] to an even frame or an uneven frame.

5. (Currently amended) The system [[Device]] according to claim 4, wherein [[characterised in that]] said turnoff circuitry [[(15)]] sends two signals [[(tr_state1, tr_state2)]] complementary with each other respectively to said [[two]] elevator devices [[(11, 12)]] according to the state of one of said first logic signals [[signal (LOW_FRAME) in input so as]] to inhibit the turning on of one of [[or]] the [[other]] elevator devices [[device]].

6. (Currently amended) The system [[Device]] according to claim 5, wherein [[characterised in that]] said pairs of transistors [[(T11-T12, T13-T14) are]] comprise pairs of MOS transistors [[MOS]].

7. (Currently amended) They system [[Device]] according to claim 6, wherein [[characterised in that]] said pairs of MOS transistors [[MOS (T11-T12, T13-T14) are made up of]] comprise a pair of PMOS transistors [[PMOS (T11-T12)]] and [[of]] a pair of NMOS transistors [[NMOS (T13-T14)]], and said [[two]] elevator devices [[(11, 12)]] each comprise a first [[(M8, M14)]] and a second [[(M9, M15)]] NMOS transistor [[NMOS]] driven by two of said second logic signals [[(CP, CN, CP_N, CN_N)]] complementary between each other and a first [[(M4, M12)]] and a second PMOS [[(M5, M13)]] transistor [[PMOS]] having [[the]] terminals that can be driven coupled [[connected]] respectively with the drain terminal of said second [[(M9, M15)]] and first [[(M8, M14)]] transistor NMOS] NMOS transistors, the drain terminals coupled [[connected]] respectively with the drain terminals of said first [[(M8, M14)]] and second [[(M9, M15)]] transistor NMOS] NMOS transistors, and the source terminals coupled to [[with]] said third supply voltage [[(VLCD)]].

8. (Currently amended) The system [[Device]] according to claim 7, wherein [[characterised in that]] said turnoff circuitry [[(15)]] comprises a first

transistor [[(M7) on whose]] having a gate terminal [[that can be]] driven by said one of first logic signals [[signal (LOW_FRAME) in input is present]] and having a first non-driven terminal coupled [[that cannot be driven connected]] to said second supply voltage [[(VSS)]] and a second non-driven [[the other]] terminal [[that cannot be driven connected]] coupled to non-driven [[the]] terminals [[that can be driven]] of two additional transistors [[(M3, M6)]] having a first non-driven terminal coupled [[terminals that cannot be driven connected]] respectively with the drain terminals of said first [[(M8)]] and second [[(M9)]] NMOS transistor [[NMOS]] of one [[(11)]] of said elevator devices [[(11, 12)]] and a second non-driven [[the other]] terminal [[that cannot be driven connected with]] coupled to said third supply voltage [[(VLCD)]], the non-driven terminal [[that can be driven]] of said two additional transistors [[(M3, M6)]] being coupled [[connected]] to the non-driven terminal [[that can be driven]] in common with two more additional transistors [[(M10, M11)]] having first non-driven terminals [[that cannot be driven connected]] respectively coupled to [[with]] the source terminals of said first [[(M12)]] and second [[(M13)]] PMOS transistor [[PMOS]] of one of [[the other of (12)]] said elevator devices [[(11, 12)]] and the other non-driven terminal [[that cannot be driven connected]] coupled to the third supply voltage [[(VLCD)]], said turnoff circuitry [[(15)]] comprising two more additional transistors [[(M1, M2)]] having non-driven [[the]] terminals [[that can be driven connected]] respectively coupled to [[with]] the drain terminals of said first [[(M8)]] and second [[(M9)]] NMOS transistor [[NMOS]] of one [[(11)]] of said elevator devices [[(11, 12)]]], first non-driven terminals [[that cannot be driven connected]] coupled to said additional non-driven terminal [[that cannot be driven]] of said first transistor [[(M7)]] and second non-driven terminal [[that cannot be driven connected]] coupled to said third supply voltage [[(VLCD)]].